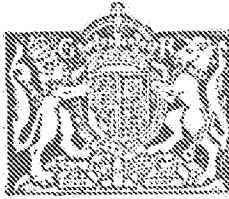


PATENT SPECIFICATION

394,885



Convention Date (Norway): March 4, 1932.

Application Date (in United Kingdom): Dec. 24, 1932. No. 35,535/32.

Complete Accepted: July 6, 1933.

COMPLETE SPECIFICATION.

Improvements in Bottle Boxes.

We, **RENA KARTONFABRIK A.S.**, of Rana Station, Osterdalen, Norway, a body corporate organized under the laws of Norway, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The subject of the invention is an improved bottle box of the kind in which the bottles are supported within the box by means of perforated supports or partitions spaced from the bottom and top of the box.

According to the invention, the box consists of a folded piece of cardboard in which are inserted two perforated plates loose and separate from the box and each provided with depending flanges adapted to bear on the bottom and on the cover of the box respectively, all of the perforations on one of said plates being of a size to fit the neck of the bottle and all of the perforations on the other being of a size to fit the base of the bottle. In order further to protect the bottles from fracture due to jolts, an extra bottom is preferably provided, this bottom being provided with upwardly pressed grooves, which will fit under each row of bottles and will provide for elasticity.

In the accompanying drawing is shown a box constructed according to the invention.

Fig. 1 shows in perspective view the completely finished box with the bottles in place.

Fig. 2 shows a cross section through the box.

Fig. 3 shows one of the supporting plates.

Fig. 4 shows another supporting plate.

Fig. 5 shows a loose bottom.

The box 1 is manufactured in the usual way by folding cardboard of suitable thickness, and may be reinforced around two or more sides by means of laths 2. In the box, a plate 3 with perforations 4 is arranged adjacent the bottom. The inserted plate 3 is provided with depending flanges 5 determining the distance of the plate from the bottom of the box. All

of the perforations 4 are of a size adapted to fit the base of the bottles.

There is further arranged a loose inserted plate 6 with perforations 7 which correspond to the necks of the bottles and are located directly above the perforations 4 in the plate 3, when these are arranged in the box. The plate 6 is provided with upwardly extending flanges 8, serving to maintain the plate 6 in position in the box.

There may according to this invention also be provided an extra bottom 9, having upwardly pressed grooves 10. These grooves are arranged at such a distance from each other that one groove will be located under each single row of bottles.

When the box is to be packed, the upper plate 6 is first removed, whereupon the bottles are arranged in place, one in each perforation 4, whereupon the plate 7 is forced over the necks of the bottles. The upwardly bent edges 8 will bear against the cover 11 and will serve as an effective support for the bottles.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A bottle box of the kind referred to which is formed of a folded piece of cardboard in which are inserted two perforated plates loose and separate from the box and each provided with depending flanges adapted to bear on the bottom and on the cover of the box respectively, all of the perforations on one of said plates being of a size to fit the neck of the bottle and all of the perforations on the other being of a size to fit the base of the bottle.

2. A bottle box as claimed in claim 1 including a loose bottom provided beneath each row of bottles with an upwardly pressed groove, whereby the bottles are resiliently supported from the bottom.

Dated this 24th day of December, 1932.
CRUIKSHANK & FAIRWEATHER,
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and 29, Saint Vincent Place, Glasgow,
Agents for the Applicants.

FIG 1.

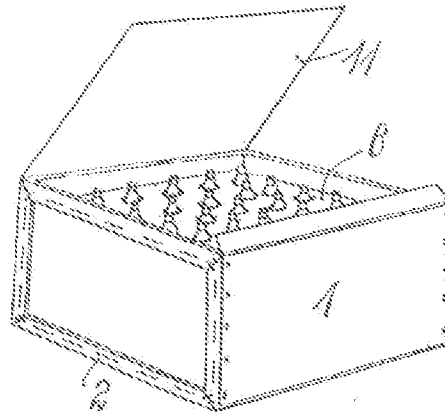


FIG 2.

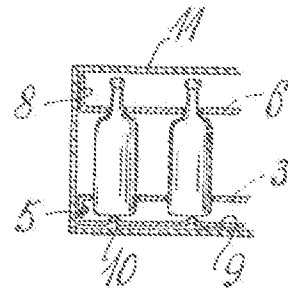


FIG 3.

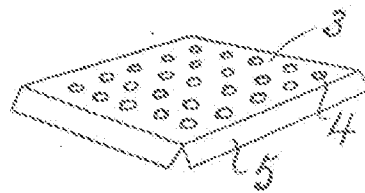


FIG 4.

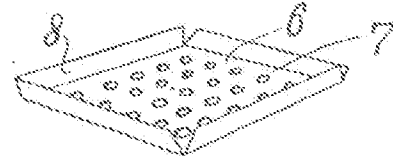


FIG 5.



[This Drawing is a reproduction of the Original on a reduced scale.]